PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCI
To: FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP Attn. Silva, Robin M. 4 Embarcadero Center, Suite 3400 San Francisco, CA 94111-4187 UNITED STATES OF AMERICA	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)
	Date of mailing (day/month/year) 06/09/2001
Applicant's or agent's file reference FP70157/RMS/RmK/SRN	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US 00/ 33497	International filing date (day/month/year) 11/12/2000
Applicant	
MOTOROLA, INC.	
The applicant is hereby notified that the International Search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is norma International Search Report; however, for more de	s of the International Application (see Rule 46):
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35	Raph to Int'l Search due 11/0/01
For more detailed instructions, see the notes on the acco	mpa Review :Foreign Refs (U.S.)
2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	n Report will be established and that the declaration under
3. With regard to the protest against payment of (an) addition the protest together with the decision thereon has bee applicant's request to forward the texts of both the protest together with the decision thereon has bee	onal fee(s) under Rule 40.2, the applicant is notified that: n transmitted to the International Bureau together with the test and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the app	plicant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the priority date, the international a If the applicant wishes to avoid or postpone publication, a notic priority claim, must reach the International Bureau as provided completion of the technical preparations for international public	e of withdrawal of the International application, of of the line Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the ation.
Within 19 months from the priority date, a demand for internation wishes to postpone the entry into the national phase until 30 m	onths from the priority date (in some Offices even later).
Within 20 months from the priority date, the applicant must perform before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	ne demand of in a later election within 15 months normale
Name and mailing address of the International Searching Authority	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Henriëtte Huysing-Solles

Information on patent family members

	inforn	Information on patent family members		1 601/03	PC1/US 00/33497	
Patent document cited in search report		Publication date	Patent fa member		Publication date	
WO 9812539	A	26-03-1998	AU 464	07369 B 49597 A 44820 A 03856 T	27-03-2001 14-04-1998 29-09-1999 21-03-2001	
EP 0372911	Α	13-06-1990	CA 20	07992 A 02170 A 64855 A	12-09-1990 05-06-1990 29-10-1990	
US 5770721	 A	23-06-1998	RU 20 WO 95	041261 C 04834 A	09-08-1995 16-02-1995	
WO 9712030	Α	03-04-1997	AU AU AU AU BR 9 CA 2 CN 1 EP 0 JP 11 US US US US US US US US US	349486 A 723134 B 968996 A 610618 A 233238 A 202929 A 852617 A 512605 T 6099803 A 6245508 B 6068818 A 6225059 B 6187642 B 6048690 A 6051380 A	15-12-1998 17-08-2000 17-04-1997 06-04-1999 03-04-1997 23-12-1998 15-07-1998 02-11-1999 08-08-2000 12-06-2001 30-05-2001 03-07-2001 13-02-2001 11-04-2000 18-04-2000	

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or new claims]: *Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged.*
- *Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended [Where various kinds of amendments are made]: claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added.

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1).

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	(PCT Atticle To and trainer	- The situal of laternational Search Report
pplicant's or agent's file reference	FOR FURTHER see Notification of (Form PCT/ISA/2)	of Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
P70157/RMS	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
ternational application No.		09/12/1999
CT/US 00/33497	11/12/2000	09/12/1777
pplicant		
MOTOROLA, INC.		
This International Search Report has be according to Article 18. A copy is being to	en prepared by this International Searching Au transmitted to the International Bureau.	thority and is transmitted to the applicant
This International Search Report consis	ts of a total of sheets. by a copy of each prior art document cited in the	is report.
Basis of the report	ne international search was carried out on the b	pasis of the international application in the
landuade in which it was liled, t	Tilega Odioi tilog mana	
the international search Authority (Rule 23.1(b)	n was carried out on the basis of a translation o	of the international application turnished to this
entide	and/or amino acid sequence disclosed in the	e international application, the international search
was carried out on the basis of	ational application in written form.	
contained in the interne	international application in computer readable f	form.
	to this Authority in written form.	
	y to this Authority in written form.	
[V]	y to this Authority in computer readble form. subsequently furnished written sequence listin	g does not go beyond the disclosure in the
international application	on as filed has been furnished.	m is identical to the written sequence listing has been
the statement that the furnished	information recorded in computer roads as a	
	found unsearchable (See Box I).	
3. Unity of invention is	lacking (see Box II).	
4. With regard to the title,		
the text is approved a	as submitted by the applicant.	
the text has been est	ablished by this Authority to read as follows:	
5. With regard to the abstract,		
the text is approved the text has been es within one month from	as submitted by the applicant. stablished, according to Rule 38.2(b), by this Au om the date of mailing of this international searc	uthority as it appears in Box III. The applicant may, ch report, submit comments to this Authority.
	e published with the abstract is Figure No.	
6. The figure of the drawings to be		Y None of the tigures
6. The figure of the drawings to be as suggested by the		X None of the figures.
as suggested by the		None of the figures.

International Application No PCT/US 00/33497

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12Q1/68 G01N27/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) C12Q IPC 7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, CHEM ABS Data, EMBASE, BIOSIS

,
7
7

X Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
A document defining the general state of the art which is not considered to be of particular relevance 1 *earlier document but published on or after the international tiling date 1 *document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 1 *document referring to an oral disclosure, use, exhibition or other means 1 *document published prior to the international filing date but	 *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
later than the priority date claimed Leate of the actual completion of the international search	Date of mailing of the international search report
31 August 2001	06/09/2001
At the end mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Hagenmaier, S

2

	l l	PCT/US 00/3349/
	L DE PEI EVANT	
	tion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
ategory °	Citation of document, with indication, where appropriate	
	US 5 972 692 A (ITO KEIKO ET AL)	5,6
	100 26 October 1999 (1999-10-20)	1-4,7
,	the whole document	
	WO 99 15893 A (HOPPE HANS ULRICH ; MICULKA	5,6
(CHRISTIAN (DE); WINDHAB NORBERT (DE); A)	
	1 1 April 1999 (1999-04-01)	1-4,7
1	the whole document	
	XBEATTIE ET AL: "Genosensor technology"	5
X	TO THITCH CHEMISIRY AMERICAN ASSOCIATION	1
	FOR CLINICAL CHEMISTRY. WINSTON, 50,	
	1 20 00 1	
	18 November 1993 (1993-11-18), pages 719-722, XP001130664	
	1 TSSN: 0009-914/	1-4,6,7
Υ	the whole document	_ , ,
	XEP 0 543 550 A (BAYLOR COLLEGE MEDICINE	5
χ	I TIQUETON ADVANCED RES CENTER (US),	
	MASSACH) 26 May 1993 (1993-05-20)	1-4,6,7
Υ	the whole document	_
.,	WO 98 54294 A (UNIV LELAND STANFORD	5
X	JUNIOR) 3 December 1998 (1998-12-03)	1-4,6,7
Υ	the whole document	
ı	WO 99 07879 A (FRAUNHOFER INST	1-4,6,7
Υ	1 CTITTUMTECHNO CHINIV SUUTIENIN CALLI CINILLI	
	(IIS)) 18 February 1999 (1999–02-10)	
	the whole document	
\ ,	WO 96 06946 A (IGEN INC)	2-4
Y	\$ March 1996 (1996-03-07)	
1	the whole document	
١	WO 98 12539 A (MESO SCALE TECHNOLOGIES	2-4
Y	LLC) 26 March 1998 (1998-03-26)	
1	the whole document	
	EP 0 372 911 A (CHIRANA ZAVODY	2-4
Y	ZDRAVOTNICKE) 13 June 1990 (1990-06-13)	
	the whole document	
	DICESARE J ET AL: "A HIGH-SENSITIVITY	2-4
Y	TI ECTROCHEMILLIMINESCENCE— BASED DELECTION	1
	SYSTEM FOR AUTOMATED PCR PRODUCT	
}	QUANTITATION" BIOTECHNIQUES, EATON PUBLISHING, NATICK,	
1	1 00	
	voi 15 no. 1. 1 July 1993 (1993-07-01),	
1	nages 152-157, XP000385835	
	ISSN: 0736-6205 the whole document	1
	the whore documents	\
	_/	
1		

	PCT/US 00/3349/
Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT	
tegory Citation of document, with indication, where appropriate, of the relevant particles	ssages Relevant to claim No.
US 5 770 721 A (ERSHOV GENNADY MOISE ET AL) 23 June 1998 (1998-06-23) the whole document	
WO 97 12030 A (NANOGEN INC) 3 April 1997 (1997-04-03) the whole document	3

Information on patent family members

Patent document cited in search report	\	Publication date		ent family ember(s)	date
WO 9918242	A	15-04-1999	US AU AU EP	6048692 A 717517 B 1072799 A 0972085 A 01507805 T	11-04-2000 30-03-2000 27-04-1999 19-01-2000 12-06-2001
WO 9957319	 A	11-11-1999	AU AU EP EP WO	2473599 A 2473799 A 1075541 A 1051517 A 9937819 A	23-11-1999 09-08-1999 14-02-2001 15-11-2000 29-07-1999
			AU EP WO	4072599 A 1075549 A 9957317 A	23-11-1999 14-02-2001 11-11-1999
US 5001048	Α	19-03-1991	EP JP WO US	0367788 A 2503826 T 8809808 A 5192507 A	16-05-1990 08-11-1990 15-12-1988 09-03-1993
EP 0226470	 A	 24-06-1987	 JP	62156561 A	11-07-1987
US 5972692	Α	26-10-1999	US DE DE EP JP JP	5776672 A 69125441 D 69125441 T 0478319 A 2573443 B 5199898 A	07-07-1998 07-05-1997 06-11-1997 01-04-1992 22-01-1997 10-08-1993
 WO 9915893	Α	01-04-1999	DE AU BR EP	19741716 A 1334099 A 9812490 A 1018007 A	25-03-1999 12-04-1999 26-09-2000 12-07-2000
EP 0543550	A	26-05-1993	AT DE DE JP US US US US	176324 T 69228291 D 69228291 T 5322817 A 5532128 A 5670322 A 5653939 A 5891630 A 5846708 A	15-02-1999 11-03-1999 02-06-1999 07-12-1993 02-07-1996 23-09-1997 05-08-1997 06-04-1999 08-12-1998
WO 9854294	Α	03-12-1998	US AU US	5981268 A 6874798 A 6051422 A	09-11-1999 30-12-1998 18-04-2000
WO 9907879	Α	18-02-1999	AU EP	8903998 A 1003905 A	01-03-1999 31-05-2000
WO 9606946	Α	07-03-1996	AU AU CA EP JP US	703344 B 3410395 A 2198489 A 0777741 A 10509025 T 5786141 A	25-03-1999 22-03-1999 07-03-1999 11-06-199 08-09-199 28-07-199

Information on patent family members

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9812539	A	26-03-1998	US 6207369 B AU 4649597 A EP 0944820 A JP 2001503856 T	27-03-2001 14-04-1998 29-09-1999 21-03-2001
EP 0372911	Α	13-06-1990	CS 8807992 A CA 2002170 A JP 2264855 A	12-09-1990 05-06-1990 29-10-1990
US 5770721	Α	23-06-1998	RU 2041261 C WO 9504834 A	09-08-1995 16-02-1995
WO 9712030	A	03-04-1997	US 5849486 A AU 723134 B AU 6968996 A BR 9610618 A CA 2233238 A CN 1202929 A EP 0852617 A JP 11512605 T US 6099803 A US 6245508 B US 6068818 A US 625059 B US 6254827 B US 6187642 B US 6048690 A US 6051380 A	15-12-1998 17-08-2000 17-04-1997 06-04-1999 03-04-1997 23-12-1998 15-07-1998 02-11-1999 08-08-2000 12-06-2001 30-05-2000 01-05-2001 03-07-2001 13-02-2001 11-04-2000 18-04-2000